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WIC−1B−S/T and WIC−1B−U WAN Interface Cards Cable Specifications

Document ID: 46796

Introduction

This document provides the technical specifications and cable requirements for the WIC−1B−S/T and WIC−1B−U WAN interface cards.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

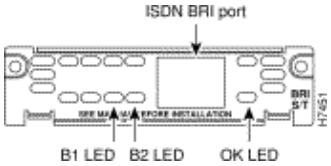
This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

WIC−1B−S/T Interface Card



The Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI) WAN interface cards are shared between the Cisco 1600, 1720, 2600 and 3600 Series Routers. Each card supports a single ISDN BRI port offered with and without the NT1 interface.

The S/T WAN interface card module (WIC−1B−S/T) needs the external Network Termination 1 (NT1) device whereas the U WAN interface card module (WIC−1B−U) has an internal NT1 device.

Cables

The WIC−1B−S/T interface card requires RJ−45 to RJ−45 straight−through cables (provided by the customer).

ISDN BRI S/T Port Pinouts

The table below shows the ISDN BRI S/T port pinouts (RJ−45).

8 Pin[1]	TE[2]	NT[3]	Polarity
3	Transmit	Receive	+
4	Receive	Transmit	+
5	Receive	Transmit	−
6	Transmit	Receive	−

[1]Pins 1, 2, 7, and 8 are not used.

[2]TE refers to terminal terminating Layer 1 aspects of TE1, TA, and NT functional groups. This applies to the Cisco 1603 and the ISDN BRI S/T WAN interface card.

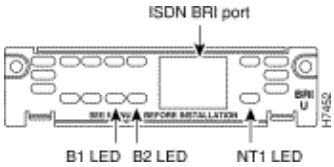
[3]NT refers to network terminating Layer 1 aspects of NT1 and NT2 functional groups. This applies to the Cisco 1604 ISDN S/T port.

BRI S/T WAN Interface Card LEDs

The table below lists the BRI S/T WAN interface card LEDs and their meaning.

LED	Meaning
B1	Active connection on B1 channel
B2	Active connection on B2 channel
OK	ISDN port has established a connection with the central office switch

WIC−1B−U WAN Interface Card



ISDN BRI U Port Pinouts (RJ−45)

The table below lists the ISDN BRI U port pinouts and their function.

8 Pin[1]	Function
3	No connection
4	Signal −− Tip or Ring
5	Signal −− Tip or Ring
6	No connection

[1]Pins 1, 2, 7, and 8 are not used.

ISDN BRI U WAN Interface Card LEDs

The table below lists the ISDN BRI U WAN interface card LEDs and their meaning.

LED	Meaning
B1	Active connection on B1 channel
B2	Active connection on B2 channel
NT1	NT1 has established a connection with the central office switch

ISDN BRI Cable Specifications

The table below lists the ISDN BRI cable specifications.

Specification	High−capacitance Cable	Low−Capacitance Cable
Resistance (at 96 kHz)	160 ohms/km	160 ohms/km
Capacitance (at 1 kHz)	120 nF[1]/km	30 nF/km
Impedance (96 kHz)	75 ohms	150 ohms
Wire diameter	0.024" (0.6 mm)	0.024" (0.6 mm)
Distance	32.8' (10 m)	32.8' (10 m)

limitation		

[1] nF = nanoFarad

Related Information

- **Understanding the 1−Port ISDN BRI (S/T) WAN Interface Card (WIC−1B−S/T or WIC36−1B−S/T)**
- **Technical Support − Cisco Systems**

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